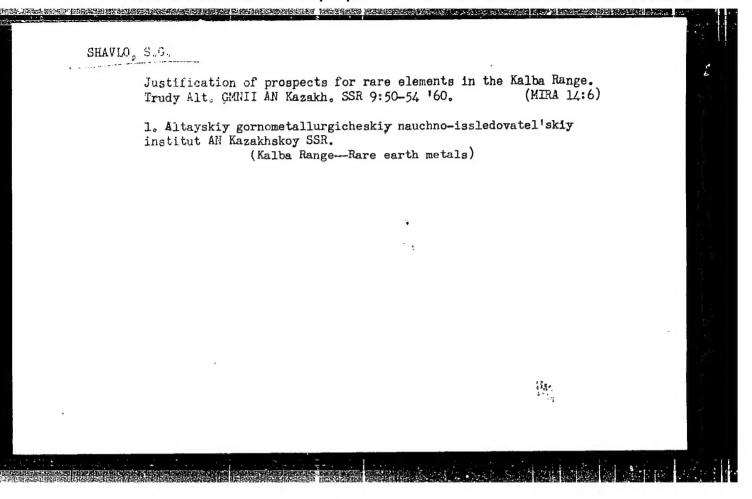
SHAVLO, Sergey Grigor'yevich; SERGIYEV, N.G., otv.red.; SEMENOV, M.N., red.; ALFEROVA, P.F., tekhn.red.

[Pegmatites and hydrothermal deposits in the Kalba Range]
Pegmatity i gidrotermality Kalbinskogo khrebta. Alma-Ata,
Izd-vo Aknd.nauk Kazakhskoi SSR, 1958. 326 p. (MIRA 12:6)

(Kalba Range--Petrology)

SHAVLO, S.G.

Formation of Kalba and Narym pegmatites. Trudy Alt. CHNII AN
Kazakh, SSR 6:40-64 '58. (MIRA 12:1)
(Kalba Range--Pegmatites) (Narym Range---Pegmatites)



BEL'SKIY, G.V.; SHAVLO, S.G.

Some regularities in the distribution of metallic elements in rocks of the central Kalba. Uzb.geol.zhur. no.5:43-49 '61.

1. Institut geologii AN Uzbekskoy SSR. (Kalba Range--Metals)

AKRAMKHODZHAYEV, A.M.; AKHMEDZHANOV, M.A.; BABAYEV, A.G.; BABAYEV, K.L.;

BATALOV, A.B.; BASHAYEV, N.P.; BAYMUKHAMEDOV, Kh.N.; BRAGIN,

K.A.; BORISOV, O.M.; GABRIL'YAN, A.Sh.; GAR'KOVETS, V.G.;

GOR'KOVOY, O.P.; GRIGORYANTS, S.V.; IBADULLAYEV, S.I.; ISMAILOV,

M.I.; ISAMUKHAMEDOV, I.M.; KAKHKHAROV, A.; KENESARIN, N.A.;

KRYLOV, M.M.; KUCHUKOVA, M.S.; LORDKIPANIDZE, L.N.; MAVLYANOV,

G.A.; MOTSOKINA, T.H.; MALAKHOV, A.A.; MIRBABAYEV, M.Yu.;

MIRKHODZHIYEV, I.M.; MUSIN, R.A.; NABIYEV, K.A.; PETROV, N.P.;

POPOV, V.I.; PLATONOVA, N.A.; RYZHKOV, O.A.; SAYDALIYEVA, M.S.;

SERGUN'KOVA, O.I.; SLYADNEV, A.F.; TULYAGANOV, Kh.T.; UKLONSKIY,

A.S.; KHAMRABAYEV, I.Kh.; KHODZHIBAYEV, N.N.; CHUMAKOV, I.D.;

SHAVLO, S.G.

Khabib Mukhamedovich Abdullaev; obituary. Uzb.geol.zhur. 6 no.4:7-9 '62. (MIRA 15:9) (Abdullaev, Khabib Mukhamedovich, 1912-1962)

SHAVLO, S.G.

Rare and trace elements in the rare-metal formations of the Kalba and Narym Ranges. Zap. Uz. otd. Vses. min. ob-va no.14: 70-77 '62. (MIRA 16:7)

(Kalba Range—Trace elements)
(Narym Range—Trace elements)
(Kalba Range—Metals, Rare and minor)
(Narym Range—Metals, Rare and minor)

SHAVLO, S.G.

Localization of rare-metal ores depending on the morphology, structure, and texture of vein bodies. Uzb. geol. zhur. 7 no.4:69-72 '63. (MIRA 16:10)

1. Institut geologii imeni KhM. Abdullayeva AN UzSSR. (Metals, rare and minor)

Enter, i.d., doktor wed.-Finer. mank, prof., etv. red.; Munichton, h.V., red.

[Minerals of Wziekieran and problems of their genesis] Fullance inkepacance innexistant I vopromy ike genesis.

[A. Ment, Proce "Manka Uzbekakoi ZMK," 1964. 143 p.

(B. Manka Iya)

1. Manka iya mank Uzbekakov ZMR, Tashkent. etdeleniya genegalebakibi mank.

UKICHUKIY, A.S., skadenik, otv. red.; BADALOV, S.T., doktor geol-min. nauk, red.; G'LOVANOV, I.M., kand. geol-miner. nauk, red.; INTAILOV, I.I., kand. geol-miner. nauk, red.; IAMAKHOV, A.A., doktor geol-miner. nauk, red.; SIAVIO, S.G., doktor geol-miner. nauk, red.; ACIAKHOV, A.N., red.

[Froblems of mineralogy and geochemistry] Voprosy mineralogii i geokhimii. Tashkent, Izd-vo Nauka, Uzbek. SSt, 1964. 278 p. (MIRA 17:8)

1. Akademiya nauk Uzbekskoy JSR, Tashkent. Institut geologii i geofiziki.2. Akademiya nauk Uzb. ESR (for Uklonskiy).

MAVINANOV, G.A., ahaderik, otv. red.; AKRALKHUDZHAYEV, A.M., red.; KENESAKIN, N.A., red.; EHAKKABAYEV, I.Kh., doktor geol.—minor. nauk, red.; SHAVLO, S.G., doktor geol.—miner. nauk, red.; FETKOV, N.P., kand. geol.—miner. nauk, red.; SFEKTOR, L.Ye., red.

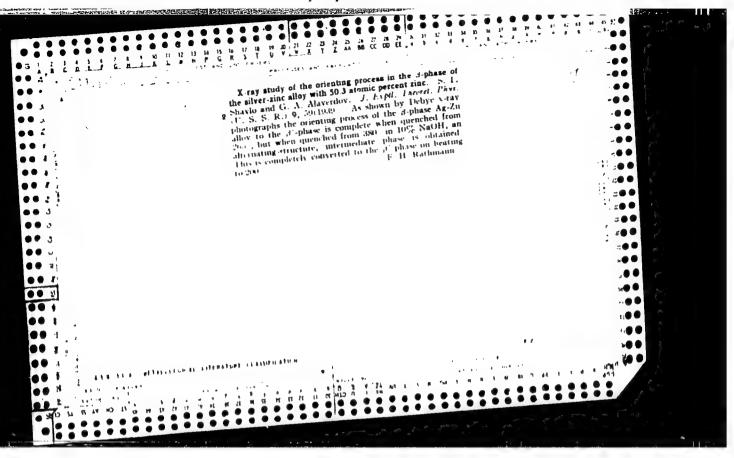
[Problems of the geology and minerals of Uzbekistan; papers of the geologists of Uzbekistan for the 22d. Session of the International Geological Congress in 1964] Problemy geologic i poleznykh iskopaenykh Uzbekistana; trudy geologic Uzbekistana k XXII sessii Mezhdunarodnogo geologicheskogo kongressa 1964.g. Tashkent, Nauka UzSSR, 1964. 194 p. (MIRA 18:1)

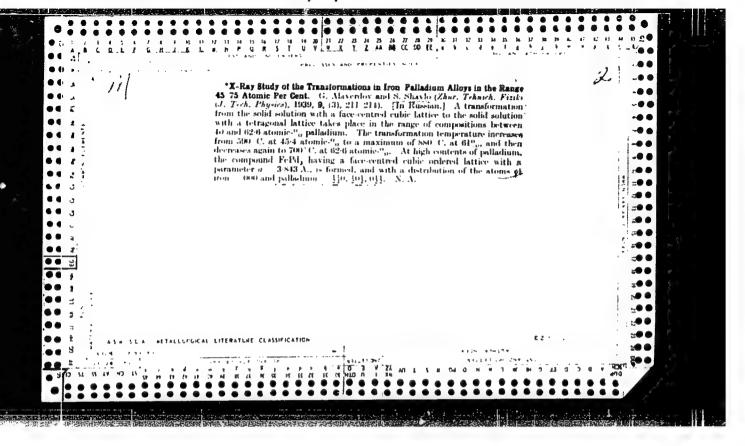
1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut geologii i geofiziki. 2. Akademiya nauk Uzbek. for Lavlyanov, Kenesarin). 3. Chlen-korresponde kademii nauk Uzbek. SSR (for Akramkhodzhayev).

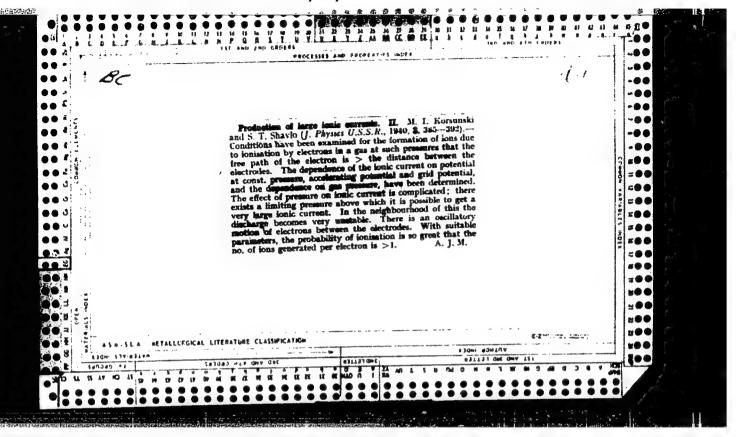
DZHAMALETDINOV, N.K.; SHAVLO, S.G.

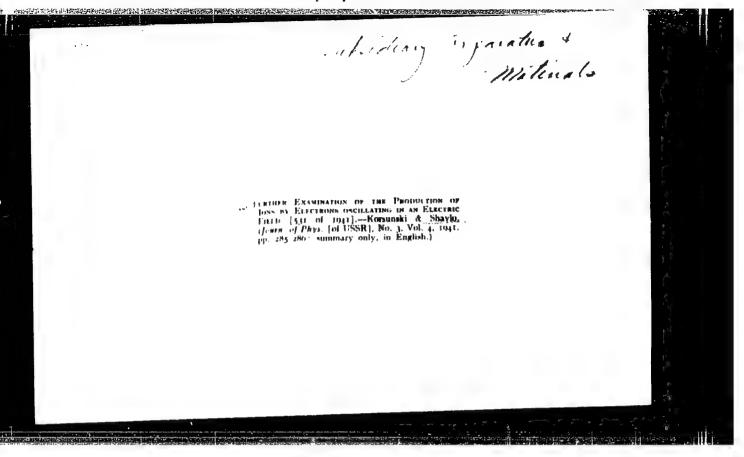
Relation of pegmatites of the Lolabulak-Ketmenchinsk zone to the various phases of intrusive igneous activity (western Uzbekistan). Uzb. geol.zhur. 9 no. 6:47-53 '65 (MIRA 19:1)

1. Institut geologii i geofiziki imeni Abdullayeva AN UzSSR. Submitted August 10, 1964.









YEZHIK, I.I.; SHAVIO, S.T.

Dependence of the intensity of infrared and visible luminescence on temperature and X-ray time in NaCl, KCl, and KBr crystals. Izv. vys.ucheb.zav.; fiz. no.3:62-67 59. (MIRA 12:10)

 Khar'kovskiy pedinstitut imeni G.S.Skovorody. (Iuminescence) (Alkali metal halides--Crystals)

YEZHIK, I.I.; SHAVLO, S.T.

Dielectric losses in X-irradiated alkali halide crystals studied at low temperatures on the 3.18 cm. wavelength. Izv. vys. ucheb. zav.; fiz. no.4:140-146 '59. (MRA 13:3)

1.Khar'kovskiy pedinstitut. (Alkali halide crystals—Electric properties)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720013-0

83364

9.4170

S/139/60/000/004/024/033 E201/E591

AUTHORS:

Yezhik, I. I. and Shavlo, S. T.

TITLE:

Infrared Fluorescence of F-centres and its Mechanism in Subtractively Coloured Alkali-Halide Crystals

Investigated at High Temperatures

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, No.4, pp. 190-197

TEXT: Infrared fluorescence of subtractively coloured NaCl, KCl and KBr crystals, illuminated in the F-centre absorption band, was studied between 290-540°K. The authors studied the decay of infrared fluorescence and the possibility of infrared emission at temperatures producing thermal decomposition of F-centres. Crystals, grown by the Kyropoulos method, were coloured by X-ray irradiation at low temperatures until F-centre saturation was achieved (Ref.3) and then were heated slowly in darkness to room temperature. Infrared fluorescence was recorded by means of a photoresistor FS-lA and the resultant signal was amplified. A modulating disc was placed between a lens which focused the fluorescence and the photoresistor. The temperature dependence of the fluorescence

Card 1/3

化自己的复数形式 医不管性坏疽 医克拉氏试验检试验 化多级电阻

83364

S/139/60/000/004/024/033 E201/E591

Infrared Fluorescence of F-centres and its Mechanism in Subtractively Coloured Alkali-Halide Crystals Investigated at High Temperatures

intensity had maxima at 332, 352, 410 and 445°K for NaCl, at 312 and 361°K for KCl and at 300 and 330°K for KBr (Fig.1). Figs. 2-4 show the decay of infrared fluorescence after illumination with light in the F-centre absorption band (Fig. 2 refers to NaCl, Fig. 3 refers to KCl and Fig. 4 refers to KBr). The following conclusions were drawn from the results.

- 1) Thermal excitation and thermal ionization of F-centres (without additional illumination in the F-centre absorption band) did not produce infrared fluorescence at temperatures from 77 to 540°K.
- 2) The observed infrared fluorescence decayed exponentially.
 3) A photochemical reaction F' + hy 2F occurred in production of infrared fluorescence.
- 4) Potential curves could be used to describe the kinetics of the F-centre infrared fluorescence at high temperatures.
- 5) The infrared fluorescence ceased above 456°K in NaCl, above 372°K in KCl and above 338°K in KBr. Above these temperatures the

Card 2/3

83364 S/139/60/000/004/024/033 E201/E591

Infrared Fluorescence of F-centres and its Mechanism in Subtractively Coloured Alkali-Halide Crystals Investigated at High Temperatures

crystals could not be coloured with X-rays. The authors give a kinetic explanation of production and decay of the infrared fluorescence and of the maxima in the temperature dependences of the fluorescence intensity. There are 5 figures, 1 table and 17 references: 11 Soviet and 6 English.

ASSOCIATION: Khar'kovskiy pedinstitut imeni G. S. Skovorody
(Khar'kov Pedagogical Institute imeni G.S.Skovoroda)

SUBMITTED: June 24, 1959

Card 3/3

85157

24.7800

\$/139/60/000/005/003/031

E073/E135

AUTHORS:

Yezhik, I.I., Shavlo, S.T.

TITLE:

On the Dielectric Losses in X-ray Irradiated Crystals

of NaCl, KCl and KBr Investigated at Elevated

Temperatures at Wavelength 3.18 cm.

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, No. 5, pp 13-20

In earlier work (Ref. 1) the authors investigated the TEXT: dielectric losses in X-ray irradiated alkali-halide crystals during illumination in the F-absorption band at the frequency 1010 c.p.s. in the temperature range -196 to +20 °C. detected on the tg & temperature curve maxima in the dielectric losses which for NaCl crystals were located at 220 °K and for KC1 crystals were located at 140, 220, 270 and 310 °K, whilst for the KBr crystals they were at 160 and 150 °K. The temperatures of the dielectric loss maxima coincided with the appropriate peaks on the photoluminescence and photoconductivity curves. A kinetic scheme was presented which permits elucidating the cause of maxima on the tg & curves in the low temperature range.

Card 1/5

85157

S/139/60/000/005/003/031 E073/E135

On the Dielectric Losses in X-ray Irradiated Crystals of NaCl, KCl and KBr Investigated at Elevated Temperatures at Wavelength 3.18 cm.

In the present paper the dependence of tg & on the temperature is investigated for X-ray irradiated NaCl, KCl and KBr crystals excited in the F band in the temperature range 290-600 °K at the wavelength 3.18 cm. The relations between the dielectric losses, the luminescence and the photoconductivity are For measuring the dielectric constant the investigated. variational method was used in which the existence of clearances between the specimen and the waveguide wall does not affect appreciably the accuracy of measurement (Ref. 2). important due to the fact that the coefficient of linear expansion of the material of the waveguide walls differs from that of the specimen. The specimens were rectangular, with a cross-section equalling that of the waveguide. The crystals were grown according to the Kiropulos method and had a high degree of purity. To obtain as high saturation as possible of the crystals with F-, F'-, M- and other coloration centres the Card 2/5

S/139/60/000/005/003/031 E073/E135

On the Dielectric Losses in X-ray Irradiated Grystals of NaCl. KGl and KBr Investigated at Elevated Temperatures at Wavelength 3.18 cm.

specimens were exposed to X-ray radiation at room temperature for 30-40 min and at the liquid nitrogen temperature for 5-10 min. The dependence of tg o on the temperature was measured after heating a specimen from 77 °K to room temperature. The specimens were stored in darkness. No loss maxima were observed in the curves expressing the dependence of the dielectric losses on the temperature in the temperature range 77 to 600 CK, in alkalihalide crystals which were exposed to X-ray radiation and were not excited by light in the F-absorption band at the frequency 1010 In the temperature range 77 to 300 °K a monotonous increase in the losses was observed; in the temperature range 300 to 600 % a progressive increase was observed in the dielectric losses with increasing temperature. The increase in the dielectric losses at elevated temperatures are obviously due to the weakening of the forces of interaction between the ions of the crystal lattics. As a result of that the ions are easily brought into motion by the ultrahigh frequency and absorb energy which results in a still Card. 3/5

\$/139/60/000/005/003/031 E073/E135

nn a fean man machtaire agus an taite

On the Dielectric Losses in X-ray Irradiated Grystals of NaCl, KCl and KBr Investigated at Elevated Temperatures at Waselength 3.18 cm.

greater increase in the losses. For alkalı-halide diyatala which has a been exposed to X-rays, illuminated in the F-absorption band in the range 77 to 600 %K at the wavelength 3,18 cm, dielectric loss maxima were observed on the tg o vs. temperature curves for the temperatures 200, 350, 410 and 490 °K for NaCl; 140, 220, 270, 310, 320 and 390 °K for KCl; and 160, 250 and 350 °K for KBr. The temperatures of the maxima of the dielectric losses correspond to the peaks of the curves of the dependence of the infrared, temperature. A part of the observed maxima of the dielectric losses, luminescence peaks and photoconductivity coincides with the temperature of disintegration of F-, F', M- and other coloration In the case that coloured alkali-balide crystals are excited by light in the F-absorption band and heated in the temperature range 77 to 600 °K, maxima of the dielectric losses and peaks in the infrared, visible and ultra rolet luminescence and the photocurrent occur simultaneously All these phenomena Card 4/5

85157

THE CONTROL OF THE PROPERTY OF

\$/139/60/000/005/003/031 E073/E135

On the Dielectric Losses in X-ray Irradiated Crystals of NaCl, KCl and KBr Investigated at Elevated Temperatures at Wavelength 3.18 cm.

occur under identical experimental conditions; consequently they are caused by a single although complicated mechanism.

There are 3 figures and 18 references: 13 Soviet, 3 English, 1 Swedish and 1 German.

ASSOCIATION: Khar'kovskiy pedinstitut imeni G.S. Skovorody

(Khar'kov Pedagogic Institute imeni G.S. Skovoroda)

SUBMITTED: September 21, 1959

Card 5/5

YEZHIK, I.I.; SHAVLO, S.T.

Role of M-, R-, and F'-color centers in the mechanism of the infrared fluorescence of F-centers in alkali-halide crystals. Izv.vys.ucheb.zev.; fiz. no.1:46-53 '61. (MTRA 14:7)

1. Kharikovskiy pedagogicheskiy institut imeni G.S.Skovorody.

(Color centers) (Alkali metal halides—Crystals)

(Infrared rays)

21.4220 also 1454

5/126/61/011/004/022/023 E193/E483

AUTHORS :

Shavlo, S.T. and Kosovtsova, N.A.

TITLE:

X-ray and Mechanical Investigation of the Structural

Changes in the AgCd (50 at.%) Alloy

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol. No. 4,

pp.635-638

It has been observed by other authors (Ref.2 and 3) that TEXT ordering (the $\beta \Longrightarrow \beta^{\dagger}$ transformation), taking place in the AgCd alloy, entails passing of the alloy through an intermediate structure \$1. The object of the present investigation was to determine (by X-ray diffraction analysis) the conditions under which the formation of the \$\beta_{\mathbb{I}}\$ phase can take place and to measure the microhardness and U.T.S. of the β , $\beta_{\tilde{1}}$ and $\beta^{\tilde{1}}$ phases. experiments were conducted on specimens 0.9 to 1.0 mm in diameter and 20 to 25 mm long, prepared by drawing the molten alloy into The results can be summarized as follows. porcelain tubes. 1. No evidence of the intermediate phase β_1 was found in specimens cooled in vacuum from 210 to 18°C in 250 to 300 h The formation of the β 1 phase could be ensured by using a faster rate of cooling (cooling from 210 to 18°C in 20 to 30 h). The disordered Card 1/2

ACCESSION NR: AP4034068

8/0126/64/017/004/0633/0635

AUTHOR: Shavlo, S. T.

TITLE: Acceleration of the ordering process of atoms and the increase of resistance of metals at cyclical thermal treatment in vacuum

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 4, 1964, 633-635

TOPIC TAGS: ordering process, beta phase, thermal treatment, silver, zinc, cadmium, radiogram

ABSTRACT: The purpose of this work was to show the significance of accelerating the ordering process of atoms in crystal lattices of AgCd and AgZn alloys by the method of cyclical thermal working in vacuum. Thermal treatment tended to accelerate the diffusion process. The cylindrical test specimens were obtained by drawing the melt through porcelain tubes of 1-1.2 mm diameter and 28-30 mm length. The initial β -phase always had a disordered structure, and it generally took a long time for transformation to the ordered β -phase without thermal treatment. The AgZn specimen was heated in a furnace to 230C for 10 minutes and then was automatically moved within one minute to a cooler to be chilled to 18C in 25 minutes. The AgCd specimen was heated for 8-9 minutes to 210C and then cooled to 18C in 23 minutes. The temperatures were measured by platinum and platinum-rhodium thermocouples. The

ACCESSION NR: AP4034068

β to β' transformation was observed by radiographic equipment. Without vacuum or thermal treatment, the time for ordering in AgCd and AgZn respectively was 200-207 hrs and 230-235 hrs. With vacuum and without thermal treatment these times were 165-167 and 170-175 hrs. With vacuum and with thermal treatment they were 72-74 and 72-74 hrs. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Kafedra fiziki Khar'kovskogo sel'skokhozyaystvennogo instituta im. V. V. Dokuchayeva (Department of Physics, Khar'kov Agricultural Institute)

SUBMITTED: 08Mar63

ENCL: 00

SUB CODE: SS, MM

NO REF SOV: 008

OTHER: 007

Card 2/2

SHAVLOKHOV, A.Ye., inch.

Investigating the performance of pneumatic driven wheels in mellow soils. Trakt. i sel'khozmash. 33 no.9:4-6 S '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva. (Agricultural machinery—Wheels)

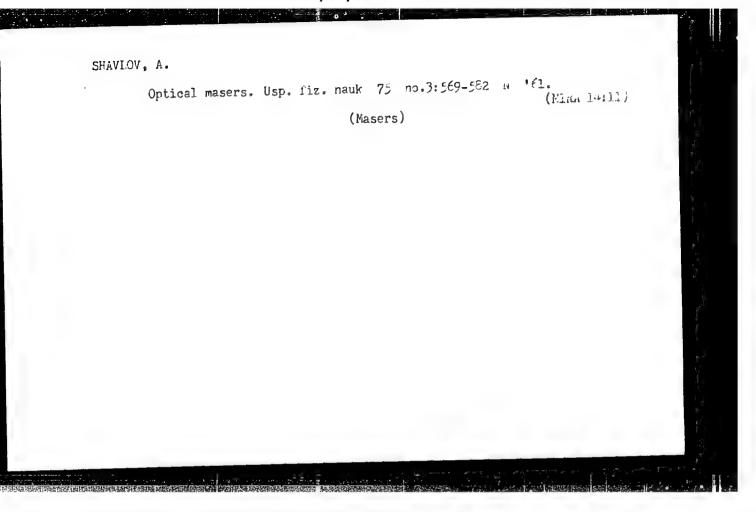
SHVARTSMAN, B.Kh.; VOLKOVA, N.S.; SHAVLOKHOVA, T.T.; GABILEV, V.Kh.;

KASHKOVSKIY, M.S.

Industrial testing of the methods of obtaining high-grade alumina from nepheline. TSvet. met. 35 no.7:41-45

Jl '62.

(Nepheline) (Alumina)

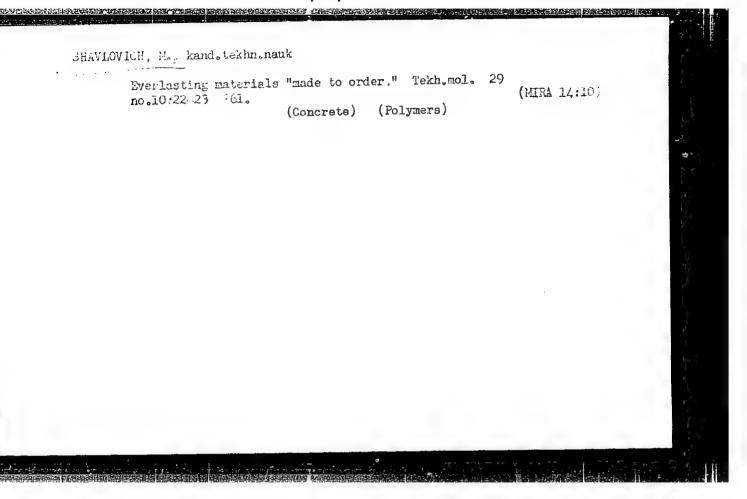


MANAN, T. F.

Compilation of Original Relief Maps of Sections by Means of a Mountain Thotograms of the Communication of Comm

The method consists in using pictures with drawn parts of relief on which decoded elements are transposed, the transformation points marked, and the whole picture drawn in Chinese ink. This drawing is reproducted on film by contact method and the obtained line negative used for further contact prints which are thereafter processed on the mountain phototransformer by conventional methods. (MEhAstr. No 10, 1955)

SC: Sum-No 787, 12 Jan 56



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720013-0

s/081/62/000/021/051/069 B162/B101

AUTHOR:

. Shavlovich, M.

TITLE:

Quick-curing polymeric materials

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1962, 451, abstract

21P46 (Tekhn. v s. kh. no. 1, 1962, 82-85)

TEXT: Methods of obtaining quick-curing polymeric materials non-reinforced, reinforced with metals and with non-metallic reinforcement (polymer-concrete, polymer-ceramics, reinforced-polymer-concrete) that are suitable for the manufacture of building construction assembly elements, machine components and for agriculture are investigated. [Abstracter's note: Complete translation.]

Card 1/1

SHAVLCVICH, M. V. -- "The Combined Drying of Capillary-Porous Materials in a High-Frequency Electrical Field at Low Pressure." Min Higher Education USSR. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

SHAVLOVICH, M., kand.tekhn.nauk, dotsent

Replacing cement concretes. NTO 3 no.2:31-34 F '61. (MIRA 14:3)

1. Kafedra fizkik Moskovskof sel'skokhozyaystvennoy akademii imeni
K.A. Timiryazeva.

(Concrete)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720013-0

12 5100 15 3000

27596 S/029/61/000/010/1. D037/D113

AUTHOR:

Shaviovich, M., Candidate of Technical Sciences

TITLE:

Durable materials "on order"

PERIODICAL: Tekhnika molodezhi, no. 10, 1961, 22-23

TEXT: The author describes previous unsuccessful Soviet attempts to prill a satisfactory plastic concrete and proposes a new method of producing this material. Cementless concrete, consisting of dry purified sand, 1.5 - 4. furfurole, 18-25% furfurolacetone "FA" monomers as binder and 3.5 - 4.5% conzosulfinide as hardener, was first produced at Fergana in 1941. This appearance was water- and soundproof and heat, acid and alkaliresistant but was not stronger than sement concrete. Besides, it was too expensive and neede. 70 days for hardening. Comparatively recently the Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva (Moscow Chemical and Factor nological Institute ideni D.I. Mendeleyev), the institutes of the Akademiye stroitel'stva i arkhitektury SSSR (Academy of Construction and Architecture USSR) and many other scientific research institutes continued the work on it -

ard 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

27596 \$/029/61/040/040/036 DC37/D113

Turable materials ...

proving this type of plastic concrete. However, the prime cost of the trajust was too high and hardening took 50 to 60 days. The author proposes a new method whereby the plastic concrete solution is simultaneously anti-ear. to high-frequency electric and low-frequency mechanical oscillations these causing an unprecedented rapid polymerization and hardening. The total ternological process takes 4 - 4.5 min. In the production of this so-called polymerconcrete, catalysts are not necessary since the variable frequency obspillations destroy the surface microfilm covering the particles of the hard substance. During the "shaking" process, the formerly inert surfaces of the hard particles acquire the properties of stronger catalysts. When the "snakeing" is stopped, steady external and internal polymerization begins. This phenomenon is called interphase atomic nuclear superactivity. The polycorn. molecules form ideally-joined structures in which the filler particles are sempletely unified. A monolith of this type hardens within a few misu*+3. becomes very strong, and can resist a pressure of over 1000 kg per st cm. Firthermore, polymerouncrete products do not require a metal reinforcement. They are not only successfrong but also durable. The high heat and sound insulating properties of the polymerconcrete, which at the same time is a room

ard 2/3

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720013-0

27596 \$/029/61/000/010/003/000 D037/D113

dielectric, and its waterproofness and resistance to agressive media make in an ideal material suitable for strong thin-walled pipes, large panels, br. ges, pylons for high-voltage transmission lines, and containers for gas, acids and alkalis. Polymerconcrete reinforced with glass fillers is siron er then the most resistant steel and will be widely used in machine and machine tool building. The new method makes it possible to produce concrete with pre-imposed properties, without significant changes in the technological cycle. There is I figure.

Tard 3/3.

Durable materials ...

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

28986

S/191/61/000/011/002/008 B110/B147

5 3830

AUTHOR:

Shavlovich, M. V.

TITLE:

New trends in the technology of hardening polymer materials

PERIODICAL:

Plasticheskiye massy, no. 11, 1961, 13-14

TEXT: For the production of polymers by means of ion (cation) polymerization, compounds of acid character (e.g., organosulfonic acids) are used as catalysts. Their drawback is the fact that they remain in the polymer mass and, in the course of time, unfavorably affect its properties under working conditions (e.g., temperature rise, effect of light, etc.). The possibility of producing, without the use of acid hardeners, polymers prepared so far by means of ion polymerization, is of greatest interest since similar materials are widely used and their application will still increase in the near future. Such valuable compositions as, e.g., plastic concretes (or polymer concretes) belong to these materials. Many resin-impregnated organic and inorganic materials, which are subject to the effect of combined electromechanical oscillations of different frequencies, were found to acquire high-grade technological and operational properties owing to the

Card 1/8 ...

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

"APPROVED FOR RELEASE: 08/09/2001 CIA

CIA-RDP86-00513R001548720013-0

20986 5/191/61/000/011/002/008 B110/E 47

New trends in the technology of ...

development of an interphase atomic and molecular superactivity. In hardening experiments of plastic concrete on the basis of \$A (FA) monomer, performed according to the author's method, the following was found: (1) Hardening may be conducted without the use of acid catalysts, (2) Plastic concrete is hardened several hundred times faster than by other known hardening methods. Basic polymerization takes place within the first minute, and after cooling (15-25 min) the organomineral composition acquires. stable mechanical and physicochemical properties. (3) The hardening temperature must lie within the 45-60°C range. (4) The mechanical and physicochemical properties of plastic concretes hardened by the new method are superior to those of ordinary plastic concretes (Table) (c) Due to better distribution of organic binders in the plastic concrete mass, their consumption may be reduced to less than half its original amount without impairing the material indices. (6) As a result of the accelerated hardening process, the savings on binders, and the elimination of hardeners, the cost of plastic concrete manufactured by the new method may be reduced to less than one-third that of the price of plastic concrete manufactured according to the catalyst method. (7) Simplification and acceleration of the hardening process of plastic concrete under the effect of combined

Card 2/5

25986 S/191/61/000/011/002/008 B110/B147

New trends in the technology of ...

electromachanical oscillations provide the conditions for the automation of a continuous, accelerated production of building elements and all types of articles from plastic concretes and various plastics. Although the results obtained from the new hardening process are of a preliminary nature, they clearly prove the prospects of the method proposed. In order to clarify all possibilities of this method and give a complete evaluation of the polymers obtained, further theoretical research of the physicochemical processes taking place during accelerated hardening will be required, as well as the establishment of an experimental plant for elaborating the automatic continuous production of fast-hardening polymer concretes and other plastics. [Abstracter's note: Complete translation.] There are 1 table and 3 Soviet references.

Table. Fundamental properties of plastic concretes produced by various methods. Legend: (1) Characteristics. (2) Heating to 60°C with catalyst. (3) Combined heating to 45°C with high-frequency oscillations. (4) Excitation of atomic and molecular superactivity. (5) Type of effect. (6) Time of hardening, hr. (7) Strength limit, kg/cm². (8) On compression. (9) On expansion. (10) On bending. (11) Elongation on expansion, %. (12)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

AND SHALL SHE TRANSPORTED THE 5/191/61/000/011/002/008 B110/B147 New trends in the technology of ... Specific impact strength, kg·cm·cm². (13) Brinell hardness, kg/mm². (14) Coefficient of linear expansion, 10⁺⁵ cm/deg. (15) Thermal conductivity. 10-4 cal/cm·sec deg. (16) Heat resistance according to Martens by a method altered by the author, °C. (17) Disruptive voltage, kv/mm. (18) Stability in aggressive media. (19) In H₂SO₄, HCl, and other acids. (20) In alkalis. (21) In mineralized water. (22) In cils and gasoline. (23) Capillary suction. (24) Color of hardened mass. (25) Smell of nardened mass. (26) Color change of hardened mass under intense solar radiation. (27) Reduction of mechanical strength during heating to 350-450°C, %. (28) Test for frost resistance in 100 cycles from -45 to +350-450°C. (29) Stable. (30) None. (31) Dark gray. (32) Slight resincus smell. (33) Gray. (34) Light gray. (35) Without smell. (56) No color change. (37) Slight yellow coloring. (38) The material became unserviceable during the last test stage. (39) Properties hardly change. (40) Properties do not change. Card 4/5

s/081/62/000/005/103/112 3166/3101

AUTHOR:

Shavlovich, M. V.

TITLE:

New high-strength polymeric waterproofing materials

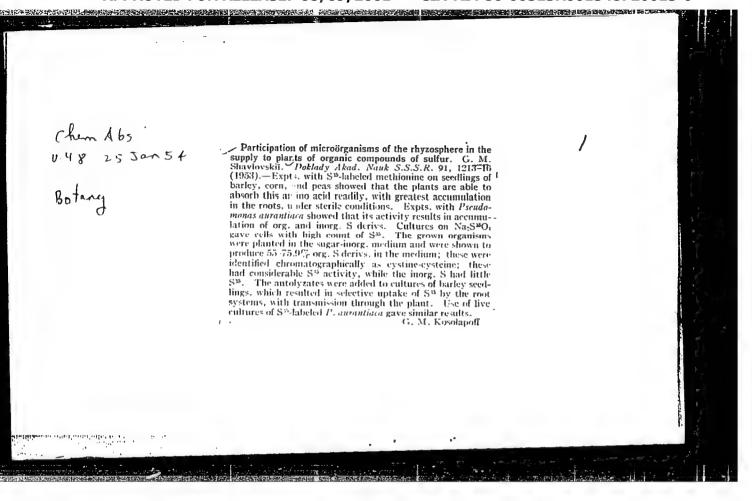
PERTODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1962, 609-610, abstract 5P48 (Gidrotekhn. i melioratsiya 13 no. 6, 1961,

47-50)

TEXT: The use of electromechanical polyresonance oscillations of various frequencies makes it possible to obtain quick-hardening, high-strength, waterproofing plastic concretes without a catalyst. In this way, the consumption of raw material is greatly reduced, which cuts the cost of the plastic concrete. Quick-hardening plastic concretes can be used to produce thin-walled high-strength pipes and large-size waterproofing panels. For joining the untreated panels the joint is subjected to the action of polyresonance oscillations. [Abstracter's note: Complete translation.]

Card 1/1



SHAVLOVSKIY, G. M.

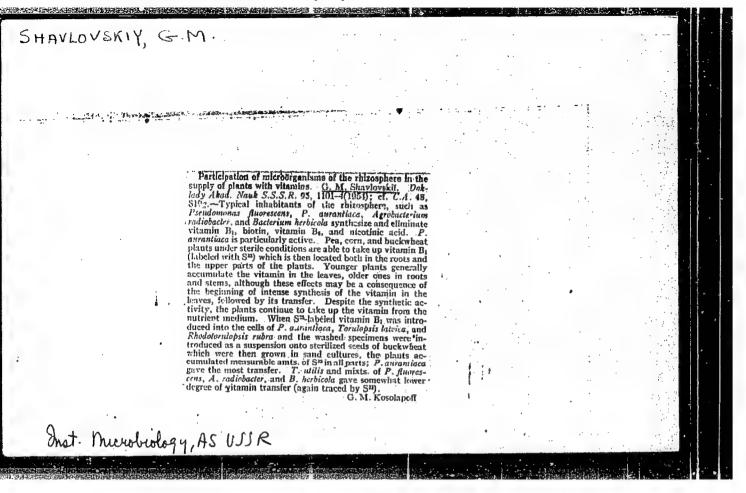
"Rhizosphere Microorganism Participation in the Vitamin and Amino Acid Nourishment of Plants." Cand Biol Sci. L'vov U, L'vov, 1954. (RZhBiolKhim, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

"APPROVED FOR RELEASE: 08/09/2001

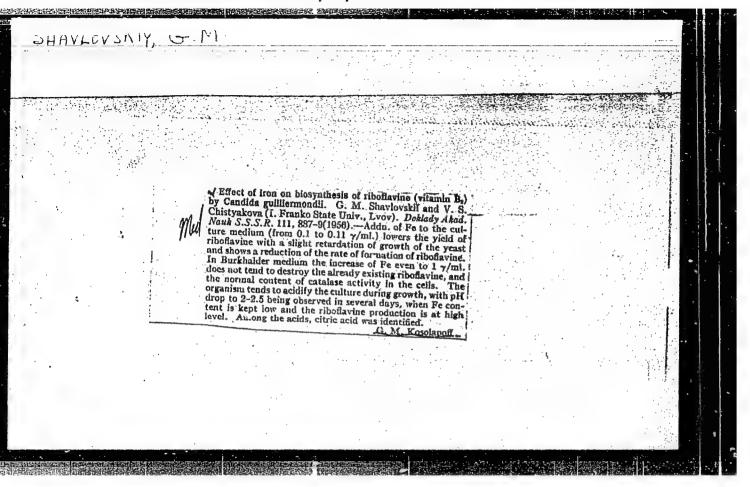
CIA-RDP86-00513R001548720013-0



SHAVLOVSKIY, G. M

"Role of Microorganisms of Rhizospheres in Vitamin and Amino Acid Nourishment of Plants," edited by A. A. Imshenetskiy, Corresponding Member, Academy of Medical Sciences USSR, Moscow, Publishing House of the Academy of Sciences USSR, 1955, 239 pp

Sum 1467



SHAYLOVSKIY, G.M. Stimulation of riboflavin synthesis in the yeast Candida guilliermondii in the presence of iron in the culture medium [with summary in English]. Mikrobiologiia 27 no.6:692-697 N-D '58. (MIRA 12:1) 1. L'vovskiy gosudarstvenny universitet. (MONILIA, metab. guilliermodii, riboflavin synthesis in presence of iron (Rus)) (VITAMIN B2, metab. Monilia guilliermondii, synthesis in presence of iron (Rus)) (IRON, eff. on Monilia guilliermindii synthesis of vitamin B2 (Rus))

17(3) ...THURS:

Shavlovskiy, G. M., Bogatchuk, A. M.

SOV/20-123-6-33/50

TITLE:

S nthesis of Coproporphyrin by the Yeasts Candida Guillier-mondii (Sintez koproporfirina drozhzhami Candida guillier-

mondii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6,

pp 1077 - 1080 (USSR)

ARSTHACT:

The porphyrins, either in combination with metals (iron or manganese) or free, take part in highly important redox reactions of the cells: photosynthesis and respiration. Free porphyrins were found in bacteria, mold fungi and yeast fungi (Refs 1,8). It is mostly coproporphyrin that can be accumulated both in the cells and in the culture medium. The formation of higher amounts of coproporphyrin usually occurs as a consequence of a disturbed synthesis of hematine or of bacteriochlorophyll or as a consequence of an iron deficiency in the culture medium (bacteria) (Ref 7). In yeasts, the insufficient supply of riboflavine to the cells (Ref 10) is said to be

Card 1/3

the cause of it. The authors prove in their paper that some

Synthesis of Coproporphyrin by the Yeasts Candida Guilliermondii

SOV/20-123-6-33/50

yeast fungi accumulate coproporphyrin in spite of an intense riboflavine synthesis. Thus some other causes for the porphyrin formation than riboflavine deficiency may exist. The yeast species mentioned in the title (ATCC 9058) was cultivated on a sugar-mineral culture medium of Berkgol'der which glycocoll and a sufficient iron quantity. In addition to the disappearance of the cytochromes from the cells a substance which was red fluorescent in ultraviolet rays was accumulated which was determined as coproporphyrin (Refs 6,8). The elimination of glycocoll from the culture medium (Table 1) as well as certain other culture media led to a decrease or even to a stop in the coproporphyrin for ation. A subspecies of this yeast species, C. guilliermondii var. membranaefaciens. further Succharomyces ellipsoideus 465 did not form considerable coproporphyrin amounts under similar conditions (Fig 2). It becomes more and more convincing that the same low-molecular weight precursors, e.g. glycocoll (Refs 7,9), take part in the formation of the prophyrins, of the riboflavine and of vitamin B12 in certain stages of the synthesis. The pheno-

Card 2/3

Synthesis of Coproporphyrin by the Yeasts Candida Guilliermondii

SOV/20-123-6-33/50

menon of "porphyria" in microbe-"hypersynthesizers" of these vitamins points, according to the authors' opinion, to an increased lability of the metabolism which is connected with the formation of heterocyclic compounds. C. guilliermondii synthesize considerable quantities of the III isomer of the coproporphyrin. It is accumulated in the vacuole apparatus of the cells. The yeart autolysate stimulates the formation of coproporphyrin. There are 2 tables and 12 references, 1 of which is Soviet.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. Iv. Franko (L'vov

State University imeni Iv. Franko)

PRESENTED:

July 11, 1958, by V. M. Shaposhnikov, Academician

SUBMITTED:

July 2, 1958

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

SHAVLOVSKIY, G.M.

Effect of iron on the riboflavin synthesis and respiratory systems of Candida guilliermondii yeasts. Trudy Inst. mikrobiol. no. 6:157-164 '59. (MIRA 13:10)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko. (CANDIDA GUILLIERMONDII)

SHAVLOVSKIY, G.M.; BOGATCHUK, A.M.

Gauses of coproporphyrin accumulation in cultures of the yeast Candida guilliermondii. Biokhimiia 25 no.6:1043-1048 N-D '60, (MIRA 14:5)

1. Chair of Plant Physiology and Biochemistry, State University, Lvov.

(COPROPORPHYRIH) (YEAST)

"Some Features of Flavinogenesis in Yeast Cell,"

report presented at the IUB, Fifth Intl. Congress of Biochemistry,
Mescow, 10-16 Aug 1961

paper available

SHAVLOVSKY, G. M., FIKTASH, I. S., (USSR)

"Features of the Flavin Synthesis by Yeast Cells."

Report presented at the 5th Int'l. Biochemistry Congress,

Moscow, 10-16 Aug 1961.

SHAVLOVSKIY, G.M.; TSARENKO, Ye.M.; FIKTASH, I.S.

Characteristics of flavine synthesis by the yeast Candida tropicalis var. rhagii. Dokl. AN SSSR 142 no.43940-943 F *62. (Min. 15:2)

l. L'vovskiy gosudarstvennyy universitet im. I. Franko. Predstavleno akademikom V.N.Shaposhnikovym.

(RIBOFLAVINE)

(CANDIDA TROPICALIS)

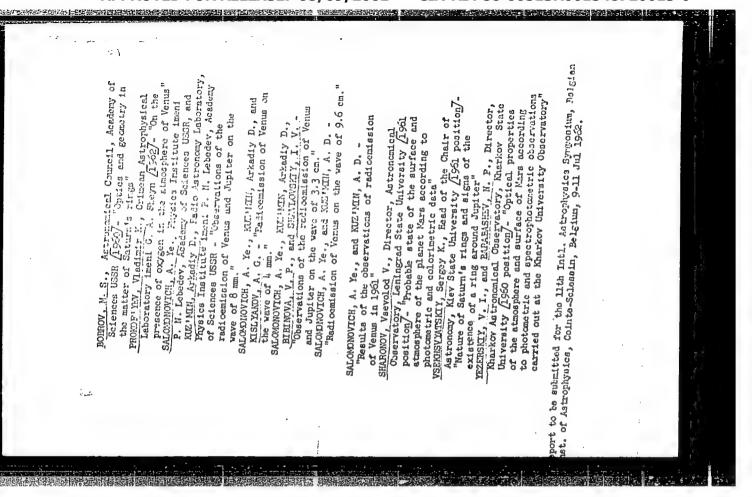
SHAVICYCHIY, G.M.; KSHPHINGKAYA, G.P.

Vitamin requirements of Candida yeasts. Mikrobiologiia 34 no.1:
53-69 Ja-F 165. (MEA 18:7)

1. Livovski, ordana Lenini gosadkratvennyy universitet imeni
1. Franko.

Multified method of devergining brothn with the help of Candida Symphosis SK-4 yeast. Priking brothn in mikrobidg. I no.44452-460 Jh-4g 165. (MIRA 18:11)

1. Kafedra mikrobiologii N. v vakog v gosudarstvennogo universiteta imedi Ivana Franko.



BIBINOVA, V.P.; KUZ'MIN, A.D.; SALOMONOVICH, A.Ye.; SHAYLOWSKIY, I.V.

Observations of the radio emission of Venus and Jupiter at the 3,3 cm.wavelength. Astron.zhur. 39 no.6:1083-1088

N-D '62.

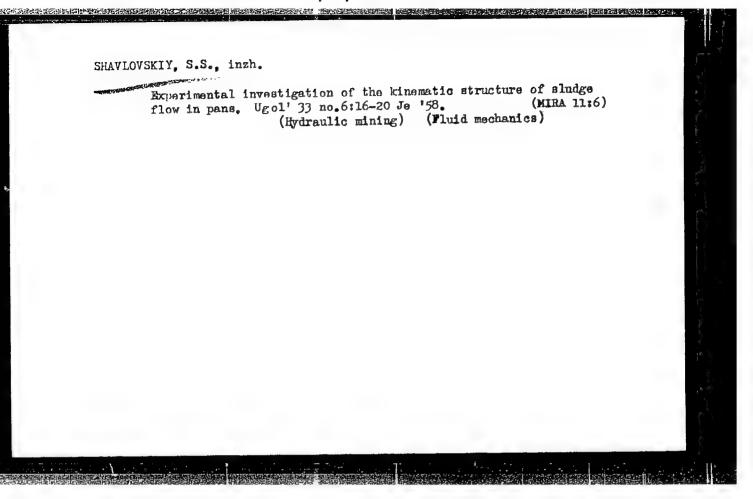
1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.

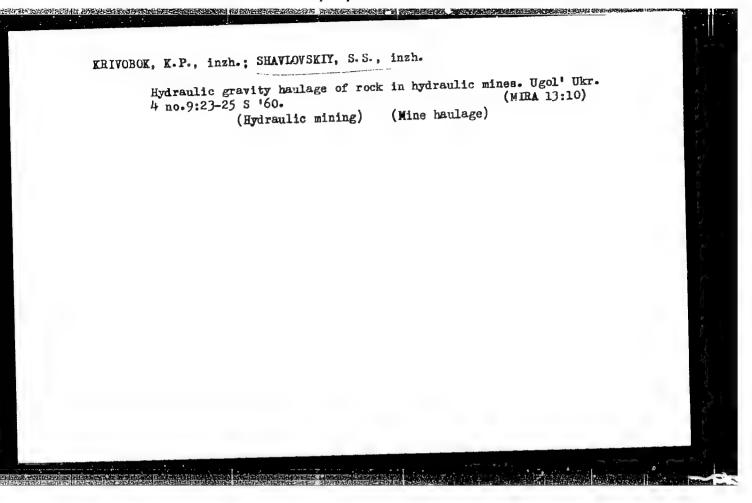
(Radio astronomy) (Venus (Planet))

(Jupiter (Planet))

SHAVIA VUKTY, S. S.: Macter Tech Sci (čiss) -- "Investigation of the problem of hydraulic transport and hydraulic leading of the tailings of dressing plants".

Mescaw, 1993. "Topp (Nain Almin of Sci Res and Design Creanizations of the Gooplan USSE, All-Union Sci Res Coal Inst VUCI), 150 copies (KL, No 6, 1999, 177)

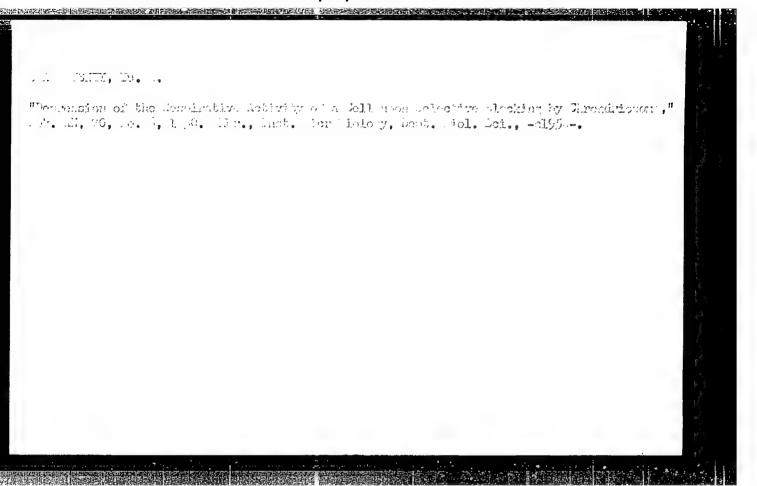




SHAVLOVSKIY, S.S., inzh.

Experimental determination of the numerical value of the coefficient of consumption. Ugol' Ukr. 5 no.5:18-19 My '61. (MIRA 14:5)

1. Institut gornogo dela AN SSSR. (Hydraulic mining) (Water jet)



GALAYEV, N.Z.; SHAVLYGIN, A.I., dots., red.

[Ore drawing] Vypusk rudy. Leningrad, Cornyi in-t,
1964. 47 p.

(MIRA 18:7)

SHAVLYUGA, N. L.

The adjusting of semiautomatic gear cutters Leningrai, Gos, nauchnotekhn. izd-vo mashinostroit. lit-ry, 1940. (Mic 53-375) Collation of the original as determined from the film: 363 p.

Microfilm T-12

1. Gear-cutting machines. 2. Machinery, Automatic.

36169 Osnovnyye naprovlennya v proyektirovanii spetsializirovannykh stankov. V. cb: Spetsializir. stanki v mashinostroyenii. M.L., 1949, S. 7-13.

SO: Letopis' Zhrunal'nykh Statey, No. 49, 1949

AID 750 - I TREASURE ISLAND BIBLIOGRAPHICAL REPORT PHASE I

Call No.: AF384255 BOOK

Author: SHAVLYUGA, N. I. Full Title: KINEMATIC SETUP IN METAL-CUTTING MACHINES

Transliterated Title: Kinematicheskiye tsepi metallurgicheskikh

stankov

PUBLISHING DATA

Orginating Agency: None

State Scientific and Technical Publishing House Publishing House: of Machine Building and Shipbuilding Literature

(MAShGIZ)

No. of copies: 8,000 No. pp.: 288 Date: 1950

Editorial Staff: Kucher, I. M., Kand. of Tech. Sci. - Editor Sobolev, N. P., Prof. - Appraiser PURPOSE: This book was written to assit technicians and foremen who are engaged in setting, adjusting and tuning-up metal-cutting machines and may be used as a textbook by senior technical

school students in their study of theory of kinematic drives.

TEXT DATA

This book presents an exhaustive analysis of the motion Coverage: of various members and drives in some basic type Soviet metalworking machines. It describes the development and designs and analyses the machine-tool kinematics, i.e. the arrangement of

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720013-0"

Kinematicheskiye tsepi metallurgicheskikh stankov

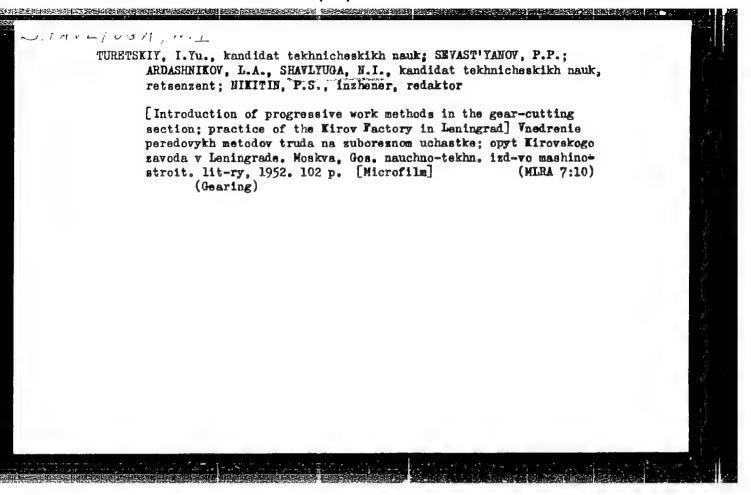
是是我们的证明的。 10.1000 10

AID 750 - I

interdependent parts and mechanisms. It indicates the method for their adjustment, their mutual dependence and their characteristics. The book presents kinematic diagrams for ordinary and more complicated high-speed lathes. The author devotes separate chapters to description of kinematic drives in the milling machines, in the drilling and boring machines, planning machines, semi-automatic gear-cutting machines, semi-automatic gear-cutting machines, semi-automatic gear planning machines and semi-automats for gearing conical ring-gear planning and in the gear-grinding machines with their numerous subdivisions or variations. The text of the book is profusely illustrated with drawings and tables.

No. of References: 27, Russian; 1933-1949 Facilities: Leningrad Polytechnic Institute

2/2



KOKICHEV, V.N.; PTITSYN, G.A.; SHAYLYUGA, N.I., kandidat tekhnicheskikh nauk, dotsent, redaktor; DLUGOKANSKAYA, Ye.A., tekhnicheskiy redaktor

[Gear-cutting machines; reference manual] Zuboreznye stanki; apravochnoe posobie. Moskwa, Gos. nauchno-tekhn. izd-vo mashino-stroitel'noi lit-ry, 1954. 355 p.

(Gear-cutting machines)

(Gear-cutting machines)

SHANLYUER, NI

ANDOZHSKIY, Vsevolod Dmitriyevich; KETOV, Kh.F., professor, retsenzent; DOBEOVOL'SKIY, V.A., professor, doktor tekhnicheskikh nauk, zasluzhenyy deyatel' nauki i tekhniki, retsenzent; PYZH, O.A., inzhener, laureat Stalinskoy premii, retsenzent; SHAVLYUGA, N.I., kandidat tekhnicheskikh nauk, dotsent, redaktor; SUKOLOVA, L.V., tekhnicheskiy redaktor.

[Calculations for gear drives] Raschet zubchatykh peredach. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 266 p. (Gearing) (MLRA 8:12)

KOKICHEV. Valentin Nikolayevich; GINZBURG, Ye.G., inzhener, retsenzent; KOLCHIN, N.I., professor, redaktor; TURETSKIY, I.Yu., kandidat takhnicheskikh nauk, redaktor; SHAVLYUGA, N.I., dotsent, redaktor; VASIL YEVA, V.P., redaktor izdatel stva; POL SKAYA, R.G., tekhnicheskiy redaktor

[Methods of finishing gear wheels] Metody otdelki zubchatykh koles. Pod red. N.I.Kolchina. Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1956. 49 p. (Bibliotechka zuboreza-novatora, no.8) (Gear cutting) (MIRA 10:3)

MITSENGENDLER, Mikhail Litmanovich; GINZBURG, Ye.G., inzhener, retsenzent; KOLCHIN, N.I., professor, redaktor; TURETSKIY, I.Yu., kandidat tekhnicheskikh nauk, redaktor; SHAVLYUGA, N.I., dotsent, redaktor; VASIL'YEVA, V.P., redaktor izdatel'stva; POL'SKAYA, R.G., tekhnicheskiy redaktor

[Basic information on gear transmission] Osnovnye svedeniia o zubchatykh peredachakh. Pod red. N.I.Kolchina. Moskva, Gos. nauchnotekhn. izd-vo mashinostroit. lit-ry. 1956. 63 p. (Bibliotechka
zuboreza-novatora, no.1)
(Gearing)

SHCHEGOLEV, A.V.; PARSHIKOV, V.I.; LUKASHEV, A.A.; ZAMURIY, A.D.; KUCHER, I.M., kandidat tekhnicheskikh nauk, dotsent, retsenzent; SHAVLYUGA, N.I., kandidat tekhnicheskikh nauk, dotsent, redaktor; LEYKINA, T.L., redaktor; POL'SKAYA, R.G., tekhnicheskiy redaktor.

[Machines for grinding spherical surfaces] Sferoshlifoval'nye stanki.

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 114 p.

(Grinding machines) (MLRA 9:5)

KUCHER, Iosif Mikhaylovich, kandidat tekhnicheskikh nauk, dotsent; SHAVLYUGA, Nikolay Ignat'yevich, kandidat tekhnicheskikh nauk, dotsent; BARSKIY, M.E., inzhener, redaktor; DRUZHINSKIY, I.A., kandidat tekhnicheskikh nauk, redaktor; SIMONOVSKIY, N.Z., redaktor izdatel'stva; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Automatization of machine tools; a survey of foreign technology]
Avtomatizatsiia metallorezhushchikh stankov; obzor zarubezhnoi
tekhniki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1956. 168 p.

(MIRA 9:11)

(Automatic control) (Machine tools)

HOLDING: Josef Yudelevica, LYUBIMARY, Looned hikolayette, Jhanev, Jeris Vasil'yevica; PRINTSSHTAR', 5.2., inzhetet et Nobemant, KUCHAIN, B.I., profesara, duster tekhnicheskiya muk, redaktor; Chartoff, 1.yz., leminet tekhnicheskiya muk, redaktor; harviyan hossent konnidet tekhniches in harc cenaktor; harviyan hossent panalet tekhniches in harc cenaktor; harviyan, n. tehnicheskiy redaktor

International tehnicheskiy redaktor

International tehnicheski zubofrezerana otanevy. Pod obshchei militario tehnicheski tochnosti zubofrezerana otanevy. Pod obshchei militario tehnicheski tochnosti zubofrezerana otanevy. Pod obshchei militario 15% 115 p. (Biolotecaka zuborezeranymort, n. 7)

Jeer-cuttier arribesy (N. 1 13:1))

KUCHER, Iosif Mikhaylovich; KUCHER, Aleksandr Mikhailovich; ANSEROV, M.A., kand.tekhn.nauk, dotsent, red.; SHAVLYUGA, N.I., kand.tekhn.nauk, dotnent, retsenzent; MANSYREV, I.G., inzh., red.; CHFAS, M.A., red. izdatel'stva; POL'SKAYA, R.G., tekhn.red.

[Lathes; their modernization and automatization] Tokarnye stanki, ikh modernizatsiia i avtomatizatsiia. Izd.2-oe, perer.i dop. Pod obshchei red.M.A.Anserova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 138 p. (Bibliotechka tokaria-novatora, no.3) (MIRA 10:12)

(Lathes)

TURETSKIY, Iosif Yudelevich, kandidat tekhnicheskikh nauk; LYUBIMKOV, Leonid Nikolayevich; CHERNOV, Boris Vasil'yevich; KOLCHIN, N.I., professor, doktor tekhnicheskikh nauk, redaktor; SHAVLYUGA, N.I., dotsent, kandidat tekhnicheskikh nauk, redaktor vypuska; GOFMAN, Ye.K., redaktor izdatel'stva; ANDOZHSKIY, V.D., kandidat tekhnicheskikh nauk, dotsent, retsenzent; POL'SKAYA, R.G., tekhnicheskiy redaktor.

[Making of very precise gearing] Izgotovlenie osobo tochnykh zubchatykh peredach. Pod obshchei red.N.I.Kolchina. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 179 p. (Bibliotechka zuboreza-novatora, no.6)

(MLRA 10:5)

(Gearing)

Transfer all places

PTITSYN, Gennadiy Anatol'yevich; KOKICHEV, Valentin Nikolayevich; PEDOTENOK.

A.A., kand.tekhn.nauk, dotsent, retsenzent; SHAVLYUGA, N.I., kand.
tekhn.nauk, dotsent, red.; BORODULINA, I.A., red.izdatel'stva;
SPERANSKAYA, O.V., tekhn.red.

[Gear-cutting machines; a handbook] Zuboreznye stanki; spravochnoe
posobie. Izd.2-oe, dop.i perer. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1957. 448 p. (MIRA 11:1)

(Gear-cutting machines)

Stiffer Store North

ORGANISTICAN DE LA COMPANION DELA COMPANION DE LA COMPANION DE LA COMPANION DE LA COMPANION DE

MARKOV, Arkadiy L'vovich; KONOVALOV, Nikolay Petrovich; KOLCHIN, N.I., prof., rud.; TURETSKIY, I.Yu., kand. tekhn. nauk, red.; SHAYLYUGA. N.I., dots., kand. tekhn. nauk, red.; VOLOSEVICH, F.P., inzh., retsenzent; VASIL'YEVA, V.P., red. izd-va; POL'SKAYA, P.G., tekhn. red.

[Checking gear wheels] Kontrol' zubchatykh koles. Pod red. N.I.
Kolchina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1958. 90 p. (Bibliotechka zuboreza-novatora, no.9). (MIRA 11:8)
(Gear cutting)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720013-0

25(2,7); 28(1)

PHASE I BOOK EXPLOITATION

SOV/3205

Shavlyuga, Nikolay Ignat'yevich

Avtomatizatsiya v zuboreznom dele (Automation of Gear Cutting) Moscow, Mashgiz, 1958. 104 p. (Series: Bibliotechka zuboreza-novatora, vyp. 10) 10,000 copies printed.

Gen. Ed.: N.I. Kolchin, Doctor of Technical Sciences, Professor; Editorial Board: N.I. Kolchin (Chairman), I.Yu. Turetskiy, Candidate of Technical Sciences, and N.I. Shavlyuga, Candidate of Technical Sciences, Docent; Reviewer: S.G. Printsental', Engineer; Ed.: I.M. Kucher, Candidate of Technical Sciences, Docent; Managing Ed. fcr Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F.I. Fetisov, Engineer; Ed. of Publishing House: N.Z. Simonovskiy; Tech. Ed.: R.G. Pol'skaya.

PURPOSE: This booklet is intended for skilled operators and setters of gearmilling machines and foremen and process engineers in the gear-manufacturing industry.

COVERAGE: The booklet deals with partial and full automation of gear-cutting processes. Individual automatic gear-cutting machines and groups of automatic Card 1/4

Ferrit Comment of State Activities	and a country of the above to the property of the country of the c		वन्द्रश्रीत के बंग
			177
	S0V/3205		
Antoma	tion of Gear Cutting		
	•	20	
3.	Automation of semi-automatic gear-milling machines	28	* *
9.	Automatic gear-milling machine for oblique milling		
10.	Gear shaper with program control for cutting unrounded	3 ¹ 4	
	gears vole	36	
11.	Gear-grinding machine with automatic operating yele Automatic feeding of gear-milling and gear-shaving machines	1111	
12.	Automatic feeding of gear-milling and gear- Automation of the operating cycles of gear-miling and gear-		(c)
13.	Automation of the operating cycles of accer and a	53	
	shaving machines		d,
	II. Automation of the Gear-cutting Process With Automatic		het.
Ch. I	II. Automation of the dear-cutting account	57	100
	Control and Setup Correction		
5 h	Selection of the basic parameters of products for the automation		5. (t) (t)
14.	of setup correction	57	4
16	Manufacturing-tolerance zone	59 60	F _{act}
- L'	Vaccination makes and transducers	63	
17	Changes in constructions of gear-milling machines	0)	
710	Offeringer 11 Court of the Cour		
Card	3.ħ		
Cara			
			1
			*
			1
	mentera garan descrito (Nobres en granda en la compresión con la color de la c		
			Market and the second

VYGODER, Mikhail Izrailevich; MITSENGENDLER, Mikhail Litmanovich; KOLCHIN, N.I., prof., doktor tekhn.nauk, red.; TURETSKIY, I.Yu., kand. tekhn.nauk, red.; SHAVLYUGA, W.L., dotsept, kand.tekhn.nauk, red.; KUCHER, I.M., kand.tekhn.nauk, retsenzent; VASIL'YEVA, V.P., red. izd-va; POL'SKAYA, R.G., tekhn.red.

[Calculations and examples of adjustments of gear planing and shaping machines] Raschet i primery naladok zubodolbezhnykh i zubostrogal'nykh stankov. Pod red. N.I. Kolchina. Moskva. Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 117 p. (Bibliotechka zuboreza-novatora, no.4) (MIRA 12:2) (Gear-cutting machines)

SHAVLYUGA, Nikolay Igant'yevich, kand.tekhn.nauk dots.; VYGODER, Mikhail Izrailevich, inzh.; KOICHIN, N.I., prof. doktor tekhn.nauk, red.; TURETSKIY, I.Yu., kand.tekhn.nauk, red.; KUCHER, I.M., kand.tekhn.nauk, dots., red.; VASIL'YEVA, V.P., redaktor izd-va; POL'SKAYA, R.G., tekhn.red.

[Design and examples of repairing gear-cutting and slot cutting machines] Raschet i primery naladok zubofrezernykh i shlitsefrezernykh stankov. Pod obshchei red. N.I.Kolchina. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 169 p.

(Bibliotechka zuboreza-novatora, no.3)

(Gear-cutting machines)

SOFOLEV, Nikolay Pavlovich; RUSINOV, M.M., prof., doktor tekhn.nauk, retsenzent; SHAVLYUGA, N.I., kand.tekhn.nauk, dots., red.; LEYKINA, T.L., red.izd-ve; POL'SKAYA, R.G., tekhn.red.

[Optics in metal cutting machine tools] Optika v metallorezhushchikh stankakh. Moskva, Gos. nauchno-tekhn.izd-vo mashino-stroit. lit-ry. 1958. 246 p. (MIRA 11:4) (Machine tools)

KUCHER, Aleksandr Mikhaylovich; KIVATITSKIY, Mikhail Moiseyevich; SHAYLYUGA, N.I., kand.tekhn.nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Machine tools; brief description of kinematic systems.
Supplement to instructional wall sheets. Series 1: Lathes]
Metallorezhushchie stanki; kratkoe opisanie kinematicheskikh skhem. Prilozhenie k plakatam. Seriis 1: Tokarnye stanki.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
38 p.

(MIRA 13:11)

KUCHER, Aleksandr Mikhaylovich; KIVATITSKIY, Mikhail Moiseyevich; POKROVSKIY, Antoniy Aleksandrovich; SHAVLYUGA, N.I., kand. tekhn.nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Metal-cutting machine tools; brief descriptions of kinematic systems. Supplement to posters Set No.3: Planing, broaching, grinding, and gear-cutting machines] Metallorezhushchie stanki; kratkoe opisanie kinematicheskikh skhem. Prilozhenie k plakatam Seriia III: Strogal'nye, spotiazhnye, shlifoval'nye i zuboobrabaty-vaiushchie stanki. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroi. lit-ry, 1959. 46 p. [__Set of posters: "Kinematic systems of metal-cutting machine tools."] ___ Seriia plakatov: "Kinemati-cheskie skhemy metallorezhushchikh stankov." 13 diagr. (MIRA 13:5)

(Machine tools)

25(2)

PHASE I BOOK EXPLOTTATION

980× 100 s

Shavlyuga, Nikolay Ignat'yevich

- Kinematicheskiye tsepi metallorezhushchikh stankov (Kinematic Chains of Machine Tools) 2d ed., rev. and enl. Moscow, Mashgiz, 1959. 363 p. Errata slip inserted. 10,000 copies printed.
- Reviewer: N. P. Sobolev, Professor; Ed. of Publishing House: I. A. Borodulina; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on Machine-building Technology (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.
- PURPOSE: This book is intended for technical personnel engaged in the maintenance of machine tools. It may also be useful to students of schools of higher education studying the theory of kinematic chains and the principles of machinetool design.
- COVERAGE: This book deals with an analysis of basic kinematic chains of standard machine tools. It makes use of design examples to explain the method of separation of kinematic chains, the selection of design displacements, the working of equations for simple and differential chains, and the derivation of formulas for setting standard machine tools. Automatic and semisutomatic machine tools

Card 1/5

			F ***
atic Chains (Cont.)	sov/2980		
Relieving lathe		66	8
II. Dividing Heads Plain limb-type dividing head Dividing head with double setting CZFS-type universal dividing head Indexing head with planetary mechanism		80 80 81 82	Paris Marine Water
Vertical-type knee-and-column milling mag	chine	88 88 99 109	
Machine Tools of the Drilling Group Universal vertical drilling machine Radial drilling machine Horizontal boring machine		117 117 121 126	
. Machine Tools of the Reciprocating Grou Openside planer	ap.	138 138	· E
5/5			
	Relieving lathe II. Dividing Head: Plain limb-type dividing head Dividing head with double setting GZFS-type universal dividing head Indexing head with planetary mechanism I. Machine Tools of the Milling Group Universal knee-and-column milling machine Vertical-type knee-and-column milling machine Vertical column-type high-speed milling in Machine Tools of the Drilling Group Universal vertical drilling machine Radial drilling machine Horizontal boring machine I. Machine Tools of the Reciprocating Group Openside planer	Relieving lathe II. Dividing Heads Plain limb-type dividing head Dividing head with double setting GZFS-type universal dividing head Indexing head with planetary mechanism I. Machine Tools of the Milling Group Universal knee-and-column milling machine Vertical-type knee-and-column milling machine Vertical column-type high-speed milling machine Machine Tools of the Drilling Group Universal vertical drilling machine Radial drilling machine Horizontal boring machine Machine Tools of the Reciprocating Group Openside planer	Relieving lathe 66 II. Dividing Head: 80 Plain limb-type dividing head 30 Dividing head with double setting 81 GZFS-type universal dividing head 32 Indexing head with planetary mechanism 84 I. Machine Tools of the Milling Group 88 Universal knee-and-column milling machine 88 Vertical-type knee-and-column milling machine 99 Vertical column-type high-speed milling machine 109 Machine Tools of the Drilling Group 117 Universal vertical drilling machine 117 Radial drilling machine 121 Horizontal boring machine 126 Machine Tools of the Reciprocating Group 138 Openside planer 138

Kinematic Chains (Cont.)	sov/2 980
Ch. X. Semiautomatic Machines for Generating Strai	ght-tooth Beyel Gears 267
1. Model 526 semiautomatic gear generator	261
2. 'Rapid" semiautomatic gear generator	276
Ch. XI. Semiautomatic Machines for Cutting Bevel G	ears With Curved Teeth 292
 Model 5832 semiautomatic gear-cutting machine Semiautomatic gear-hobbing machine for bevel 	e 292 gears with curved
teeth	310
Ch. XII. Semiautomatic Gear Grinders	323
1. Model 5832 semiautomatic gear grinder	323
2. Niles semiautomatic gear grinder	330
3. Maag semiautomatic gear grinder	339
h. XIII. Automatic Systems for Machine Tools	353
1. Development of automatic systems for machine	tools 356
2. Machines with program control	356
Sibliography	360
VAILABLE: Library of Congress	
ard 5/5	VK/os
wa w // /	2/1/6

SHAVLYUGA, Nikoley Ignat'yevich; KOLCHIN, N.I., zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof., red.; KUCHER, I.M., kand. tekhn. nauk, red.; SIMONOVSKIY, N.Z., red. izd-va; BARDINA, A.A., tekhn. red.

[Mechanization and automation of gear-cutting operations]Me-khanizatsiia i avtomatizatsiia v zuboreznom dele. Pod obshchei red. N.I.Kolchina. Izd.2. Moskva, Mashgiz, 1962. 91 p. (Bibliotechka zuboreza, no.8) (MIRA 15:9) (Gear cutting-Technological innovations) (Automation)

KUCHER, Aleksandr Mikhaylovich, kand. tekhn. nauk; KIVATITSKIY,
Mikhail Moiseyevich; POKROVSKIY, Antoniy Aleksandrovich;
FEDOTENOK, A.A., doktor tekhn. nauk, retsenzent; TSYPKIN,
M.Ye., inzh., retsenzent; SHAVLTUGA, N.I., kand. tekhn.
nauk, red.; VARKOVETSKAYA, A.I., red. izd-va; LEYKINA,
T.L., red. izd-va; KUREPINA, G.N., red. izd-va; SHCHETININA,
L.V., tekhn. red.

[Machine tools; album of general design; kinematic diagrams and units] Metallorezhushchie stanki; al'bom obshchikh vidov, kinematicheskikh skhem i uzlov. Pod obshchei red. A.M. Kuchera. Moskva, Mashgiz, 1963. 282 p. (MIRA 16:7) (Machine tools—Design and construction)

BARUN, Vladimir Abramovich; BUDINSKIY, Aron Abramovich; MITROFANOV, S.P., doktor tekhn. nauk, retsenzent; SHAVLYUGA, N.L., kand. tekhn. nauk, red.; KUREPINA, G.N., red.izd-va; SPERANSKAYA, O.V., tekhn. red.

[Automatic control systems for machine tools]Sistemy avtomatizatsii stankov. Moskva, Mashgiz, 1963. 430 p. (MIRA 16:4) (Machine tools) (Automatic control)

SHAVLYUGA, N.I.; KOLCHIN, N.I. zasl. doyatel: nauki i tekhniki
nereR; doktor tekhn.nauk; prof., red.; TURETSKIY, I.Yu.,
kend. tekhn.nauk; retsenzent; YELESINA, O.G., inzh., red.;
GOFMAN, Ye.K., red.izd-va; BARDINA, A.A., tekhn. red.

[Calculation and examples of the adjustments of gear-milling and gear-shaping machines] Raschet i primery naladok zubofrezernykh i zubodolbezhnykh stankov. Pod obshchei red. N.I. Kolchina. Moskva, Mashgiz, 1963. 136 p. (Bibliotechka zuboreza, no.3) (MIRA 16:7) (Gear-cutting machines) (Gear-shaping machines)

SCHOLEV, N.P. [deceased]; VITENSERG: Yu.R.; SHAVLYUGA, N.I., kand. tekhn. nauk, retsenzent, FIRUN, N.B., kand. tekhn. nauk, red. CHFAS. M.A., red izd-va, VARREVETSKAYA, A.I., red. izd-va; BARDINA, A.A. tekhn. red. [Gear-cutting machines and tools used in the instrument industry] Zutoctrabatyvatushchie stanki i instrumenty v priborostroenii, Moskva, Maengiz, 1963. 306 p. (MIRA 16:10)

(Instrument industry) (Gear-cutting machines)